

2/18

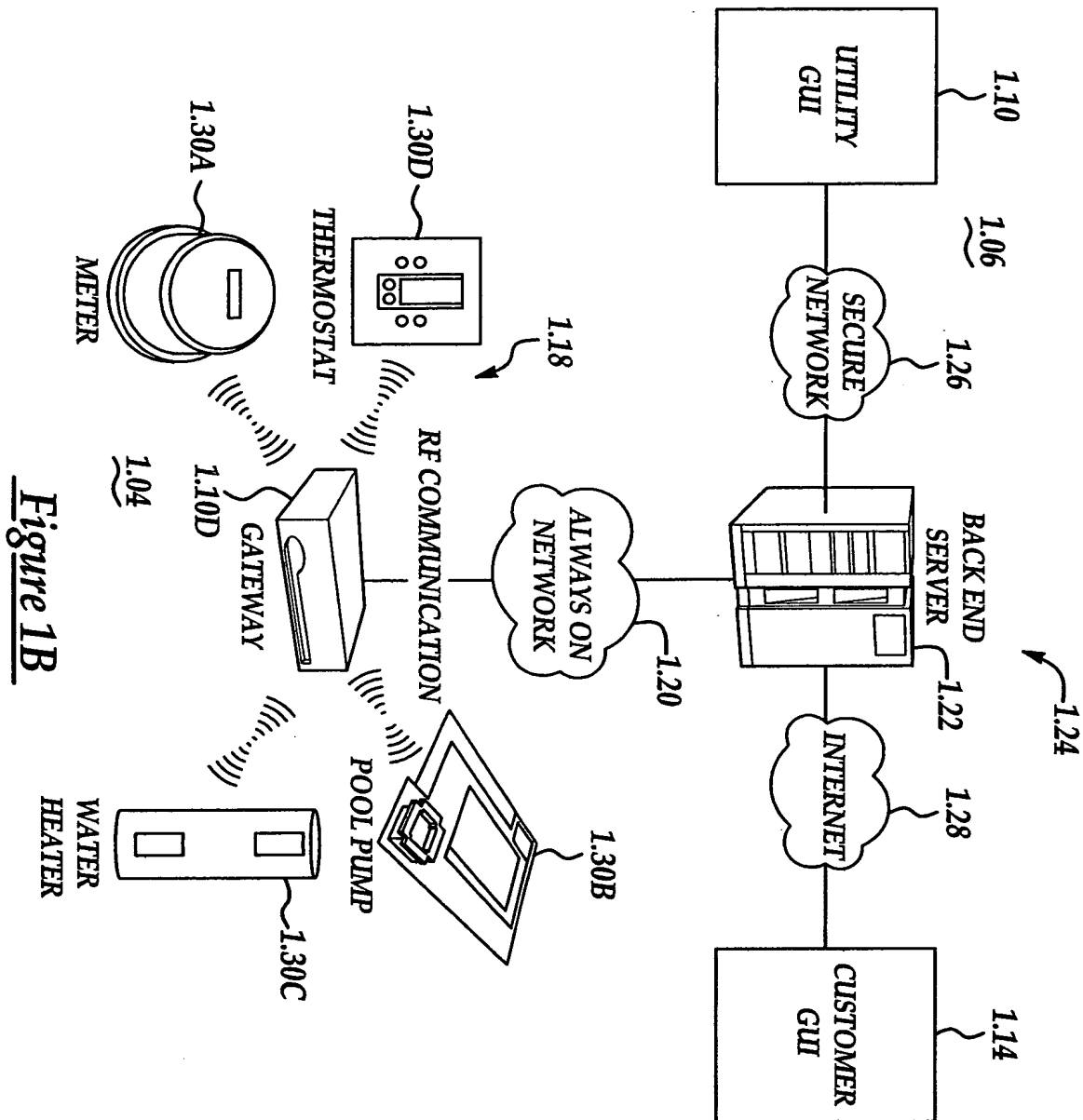


Figure 1B

3/18

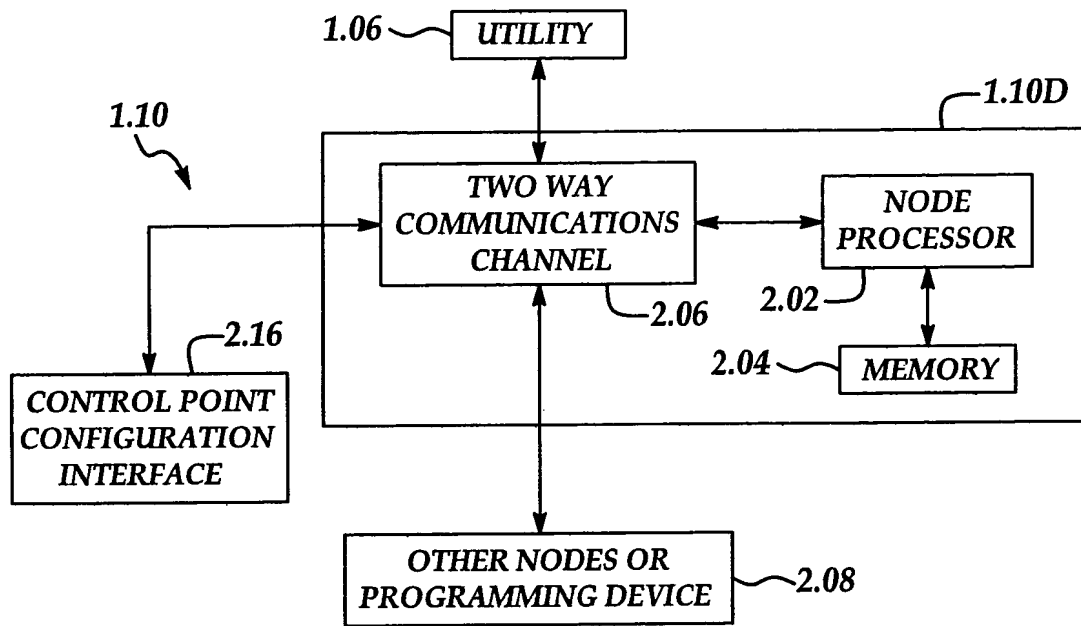


Figure 2A

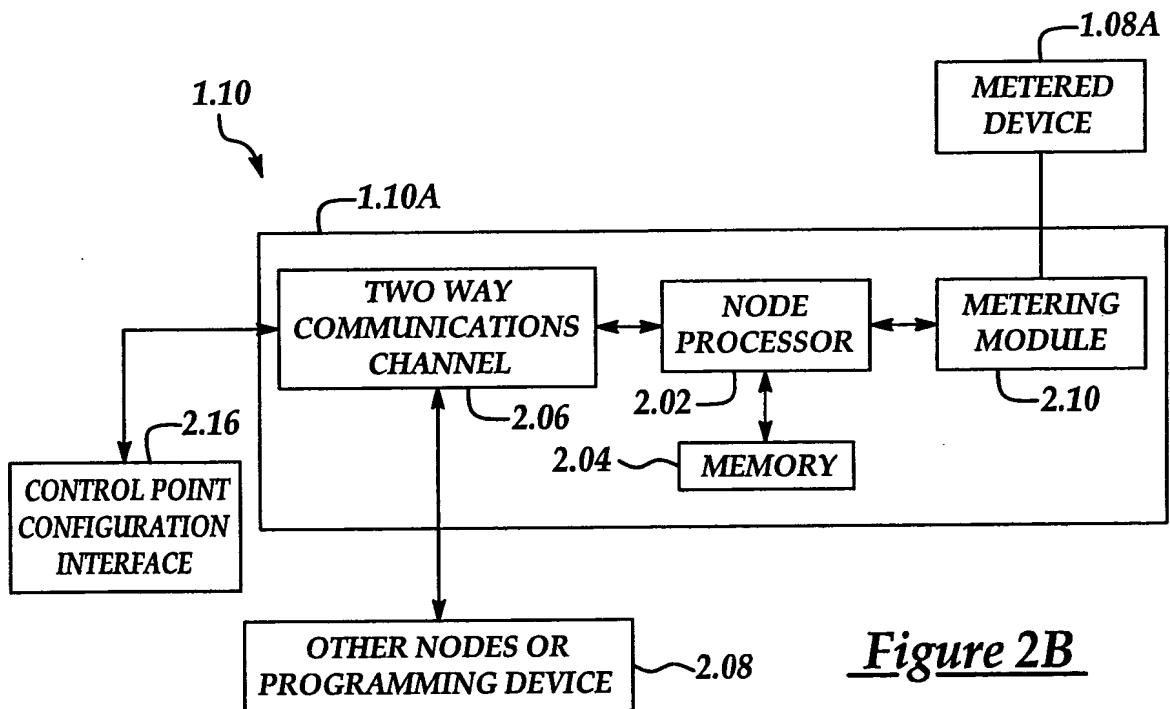


Figure 2B

4/18

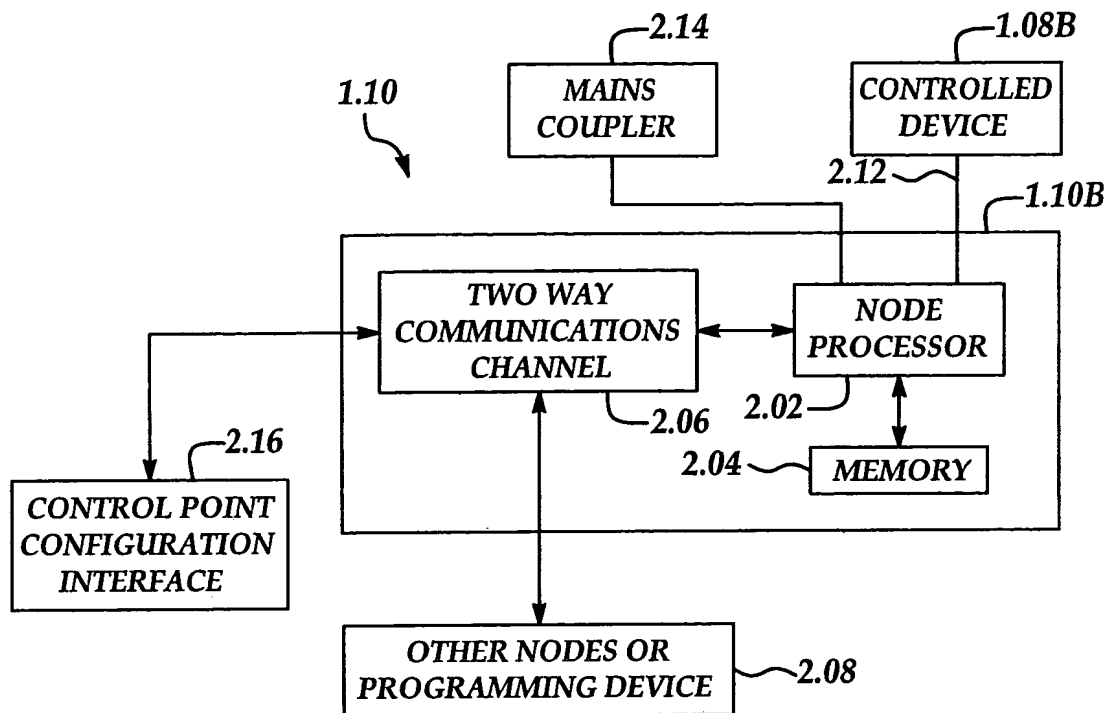


Figure 2C

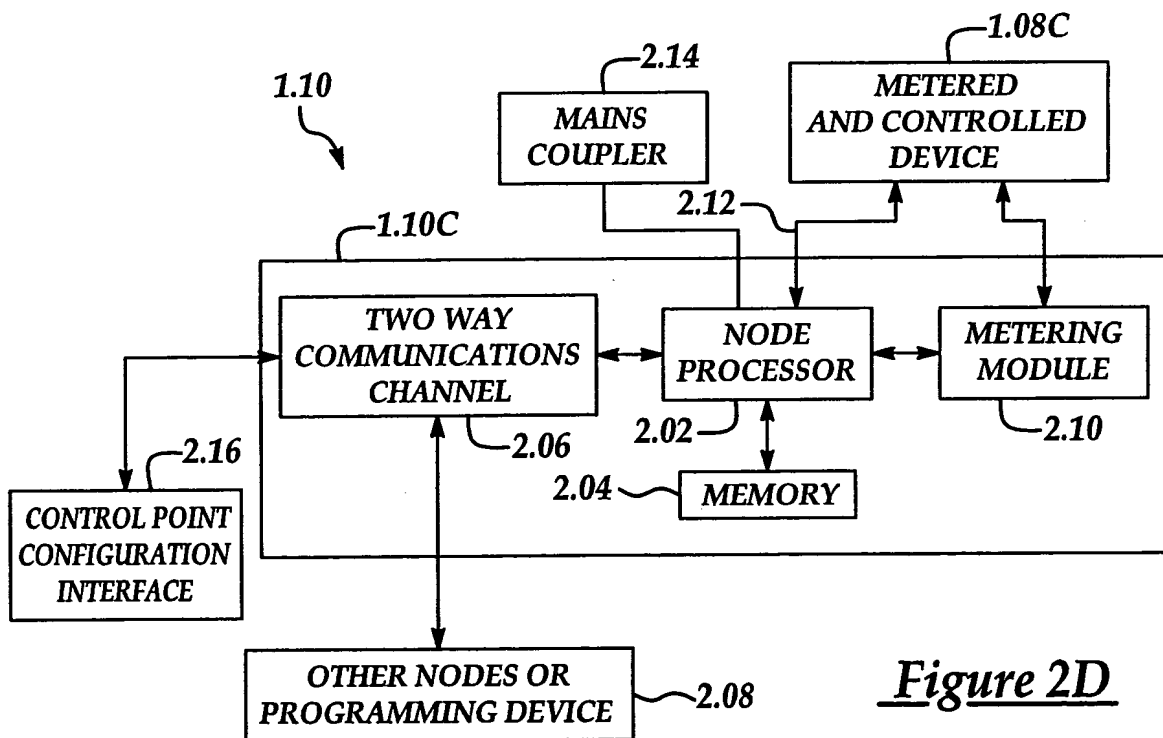


Figure 2D

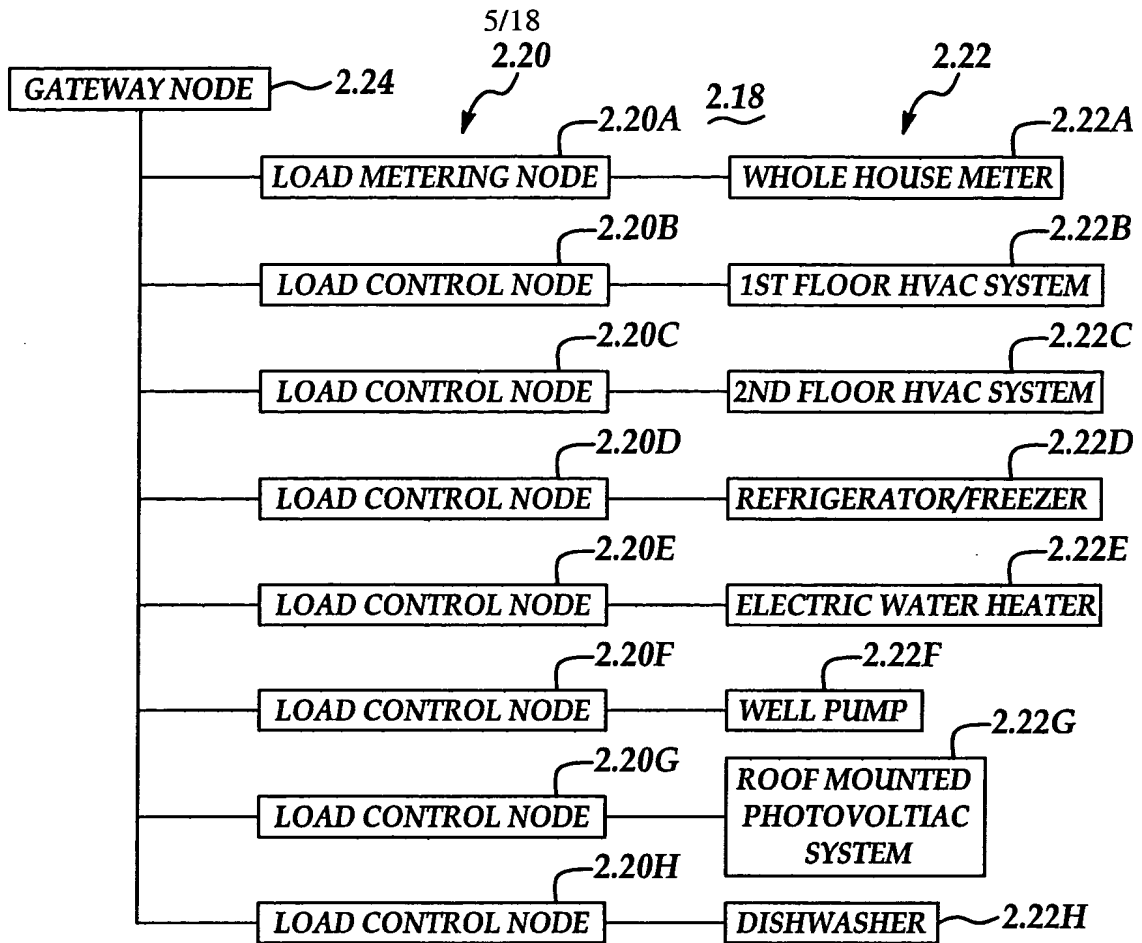


Figure 2E

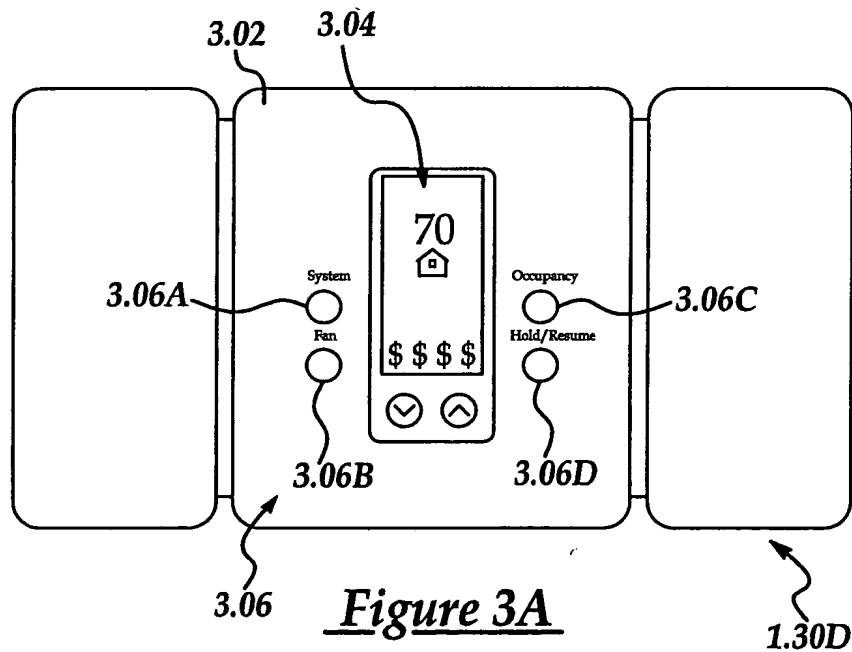


Figure 3A

6/18

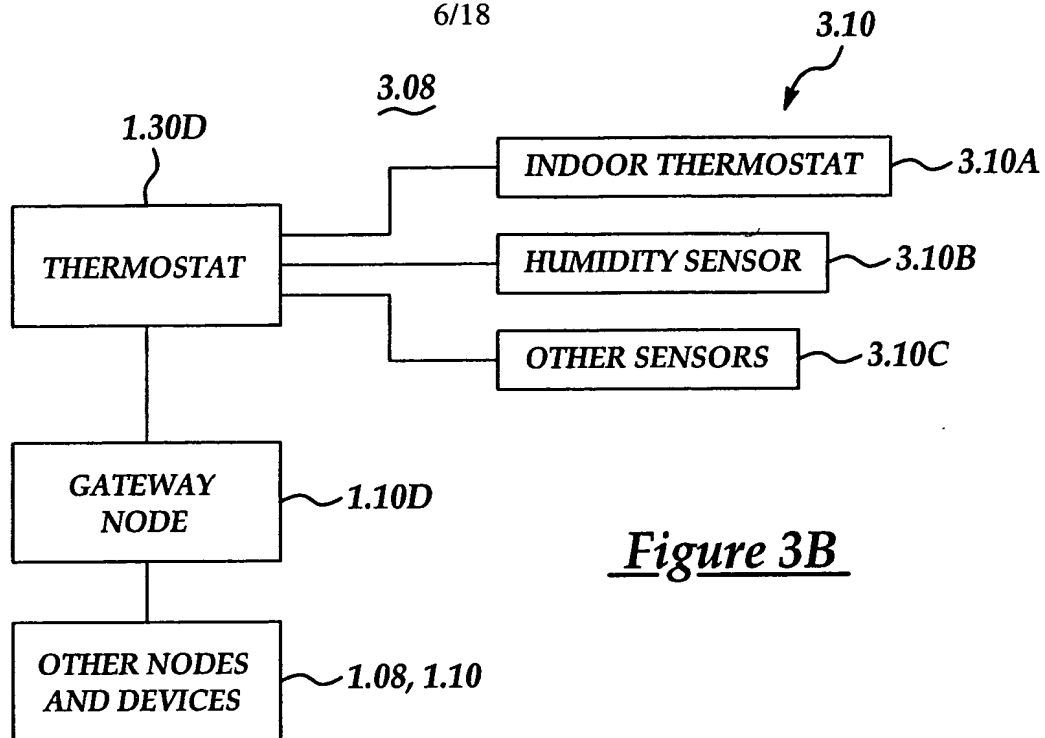


Figure 3B

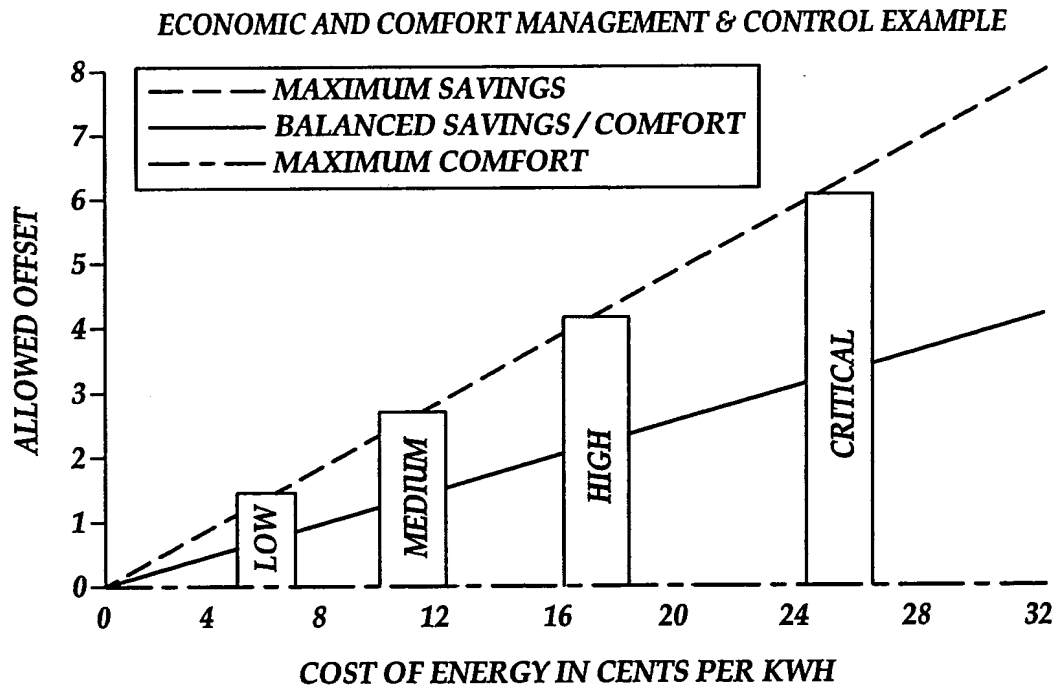


Figure 3C

7/18

ECONOMIC AND COMFORT MANAGEMENT & CONTROL EXAMPLE

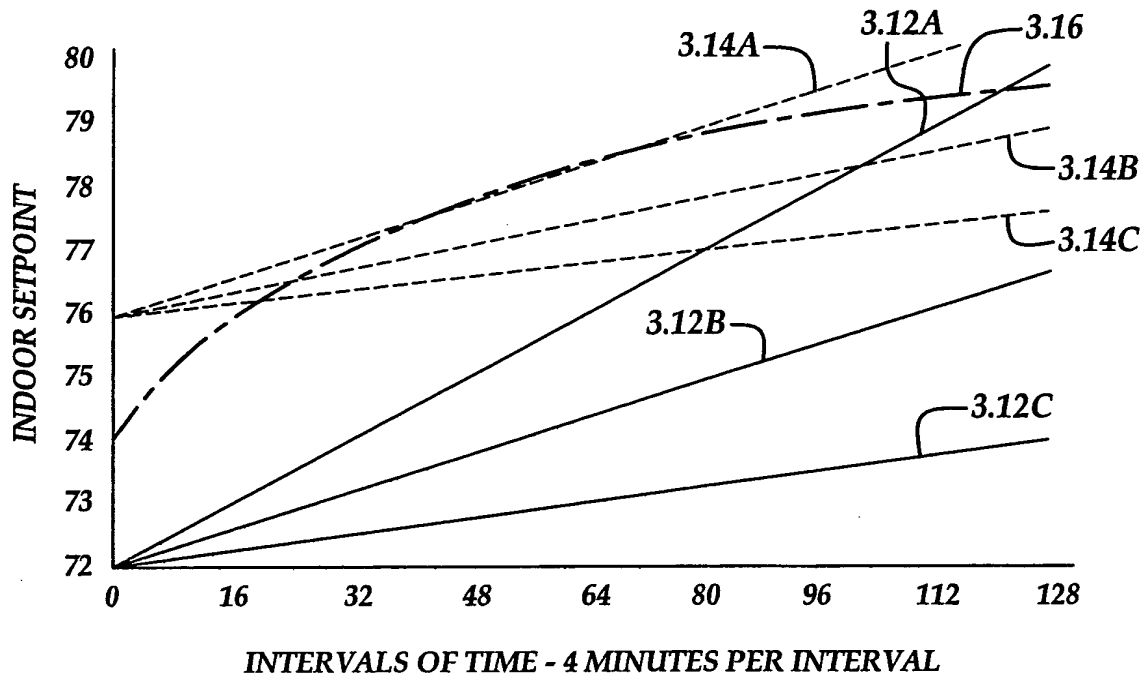


Figure 3D

ECONOMIC AND COMFORT MANAGEMENT & CONTROL EXAMPLE

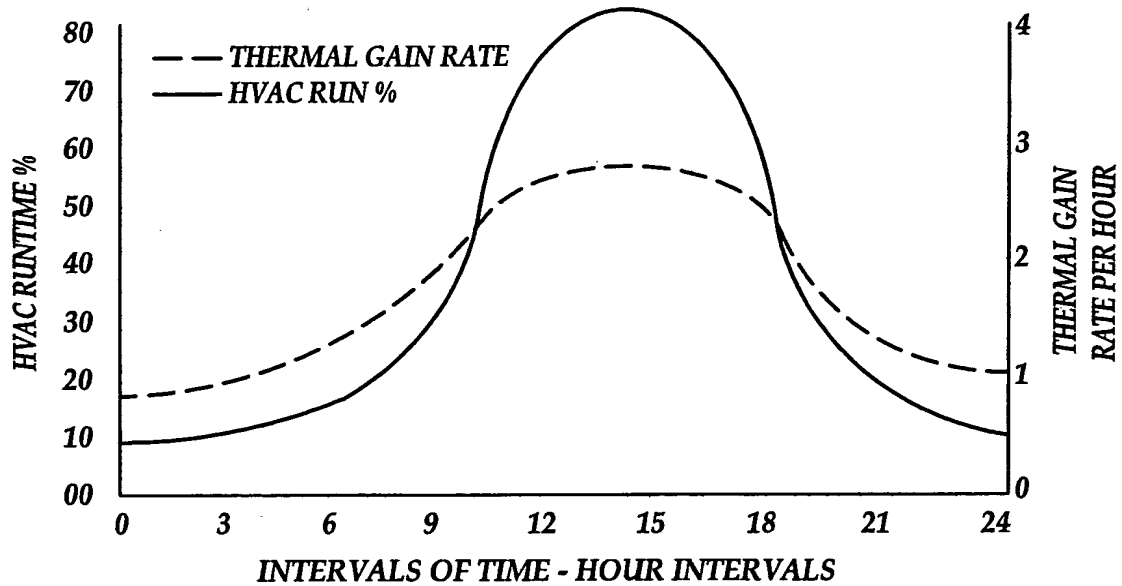


Figure 3E

8/18

ECONOMIC AND COMFORT MANAGEMENT & CONTROL EXAMPLE

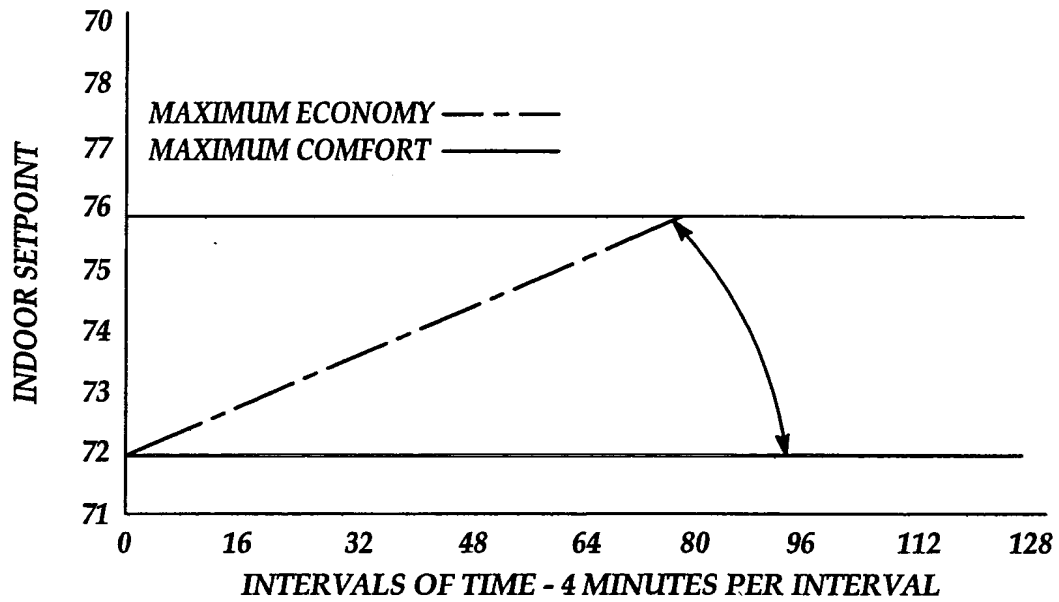


Figure 3F

ECONOMIC AND COMFORT MANAGEMENT & CONTROL EXAMPLE

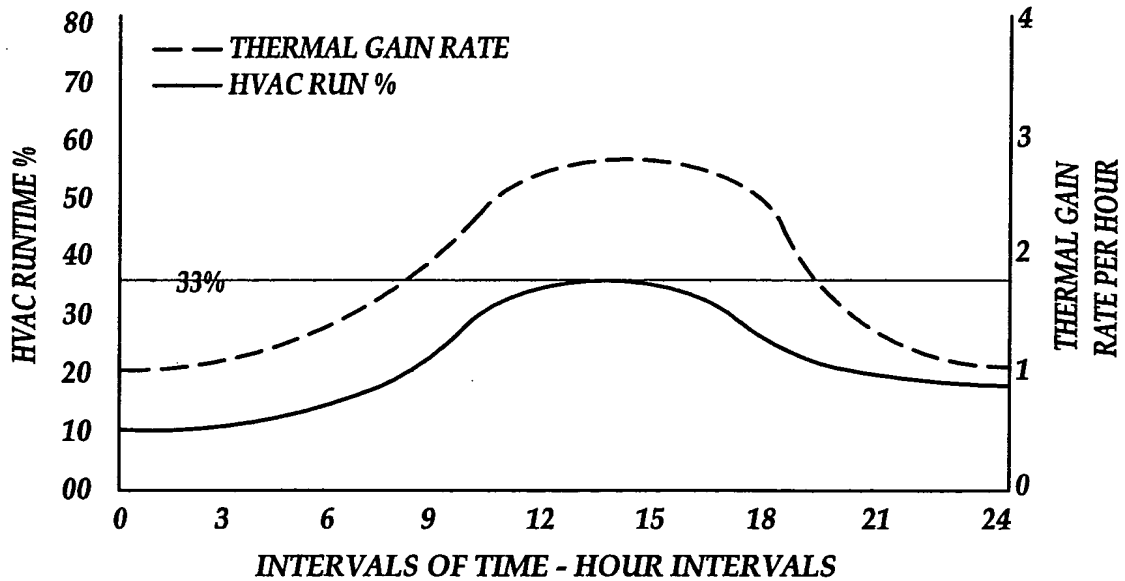


Figure 3G

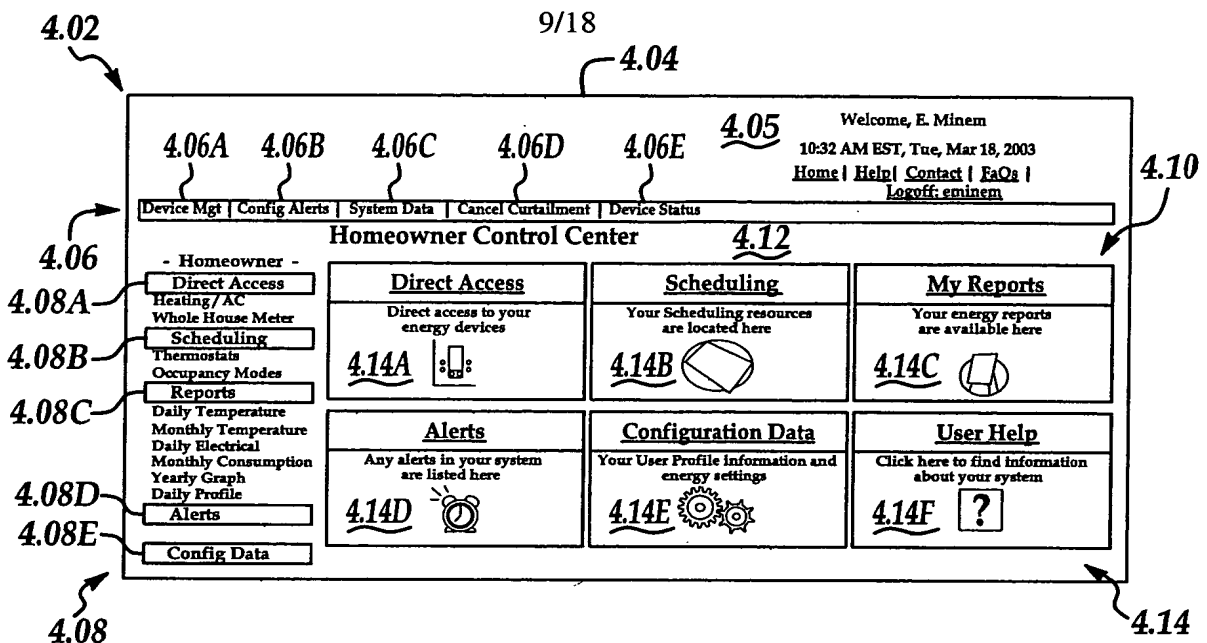


Figure 4A

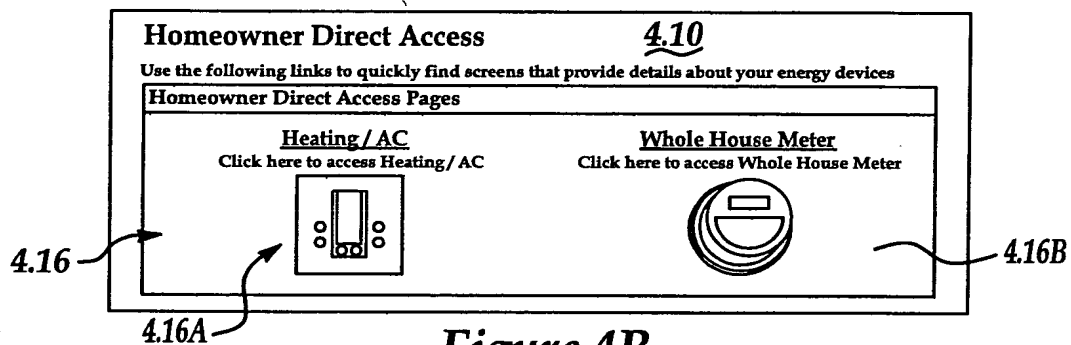


Figure 4B

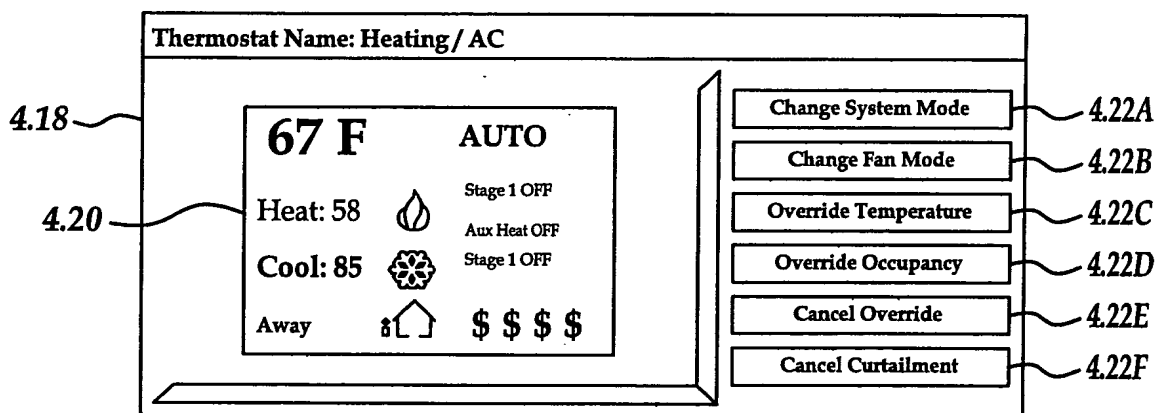


Figure 4C

10/18

4.24 4.10

Occupancy Modes

Home Away Sleep Vacant User1 User2 User3 User4 2.26

When my home is in Home Mode ☒ Active

Use the following settings for the areas controlled by the Heating/ AC thermostat

Cooling setpoint: °F use: Economy Profile 4.32

Heating setpoint: °F ☒ My home is normally OCCUPIED during Home mode

 4.30

4.28

Figure 4D

Occupancy Modes

Home Away Sleep Vacant User1 User2 User3 User4 2.26

When my home is in Home Mode ☐ Active

Use the following settings for the areas controlled by the Heating/ AC thermostat

Cooling setpoint: °F use: Economy Profile 4.32

Heating setpoint: °F My home is normally OCCUPIED during Away mode

 4.30

4.28

Figure 4E

Occupancy Modes

Home Away Sleep Vacant User1 User2 User3 User4 2.26

When my home is in Home Mode ☐ Active

Use the following settings for the areas controlled by the Heating/ AC thermostat

Cooling setpoint: °F use: Economy Profile 4.32

Heating setpoint: °F ☐ Maximum Comfort OCCUPIED during Vacant mode

☐ Balanced Comfort

☐ Economical Comfort

Figure 4F

11/18 4.10

Thermostat Scheduling

4.36 <<Prev March Next>> March 2003

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
						1 Weekend
2 Weekend	3 Weekday	4 Weekday	5 Weekday	6 Weekday	7 Weekday	8 Weekend
9 Weekend	10 Weekday	11 Weekday	12 Weekday	13 Weekday	14 Weekday	15 Weekend
16 Weekend	17 Weekday	18 Weekday	19 Weekday	20 Weekday	21 Weekday	22 Weekend
23 Weekend	24 Weekday	25 Weekday	26 Weekday	27 Weekday	28 Weekday	29 Weekend
30 Weekend	31 Weekday					

4.34

Figure 4G

Thermostat Scheduling 4.38 4.10

Select Thermostat: Heating/AC Select Day Type: Weekday

Start>> Start at midnight in: Sleep mode Click to show instructions 4.40

Then at 04:30am switch to User1 mode

Then at 05:00am switch to User2 mode

Then at 05:30am switch to Home mode

Then at 07:30am switch to Away mode

Then at 04:00pm switch to User2 mode

Then at 05:30pm switch to Home mode

Then at 10:00pm switch to Sleep mode

4.36

4.42 Apply to 3/18/2003 4.44 Apply to all Weekdays 4.46 Back to Calendar...

Figure 4H

Weekday	▼
New Day Type	
Weekday	
Weekend	
Holiday	
8/13/2002	
2/18/2003	

4.40

Figure 4I

12/18

Configure Alert

Alerts

User Name: E Minem

Primary email: eminem@aol.com

AccountID: 555

Phone#: 5555555555

Alert Description	Destination	Channel		Configurable	Priority	Single/Aggregate
		Primary email	Web Page			
Temperature out of Range	Home Occupant	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	1	Single
Temperature out of Range	Service Provider	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	1	Single
Gateway Not Responding	Service Provider	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	1	Single
Temperature out of Range	Energy Provider	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	1	Single
Gateway Not Responding	Energy Provider	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	1	Single
Budget Limit Alarm	Home Occupant	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	2	Single
Device is Malfunctioning	Home Occupant	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	2	Single
Communication Failure	Home Occupant	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	3	Single
Ramping Recovery Failure	Home Occupant	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	12	Single
Duplicate IP address	Service Provider	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	12	Single
Temperature out of Range	Energy Provider	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	12	Single

Note: You may add the secondary email as another channel by updating personal data, Click [here](#) to update account personal data

Figure 4J

Reports

Temperature Reports

Daily Temperature

Monthly Temperature

Electricity Usage

Daily Electrical

Cost & Consumption

Yearly Graph

Monthly Consumption

Daily Profile

Figure 4K

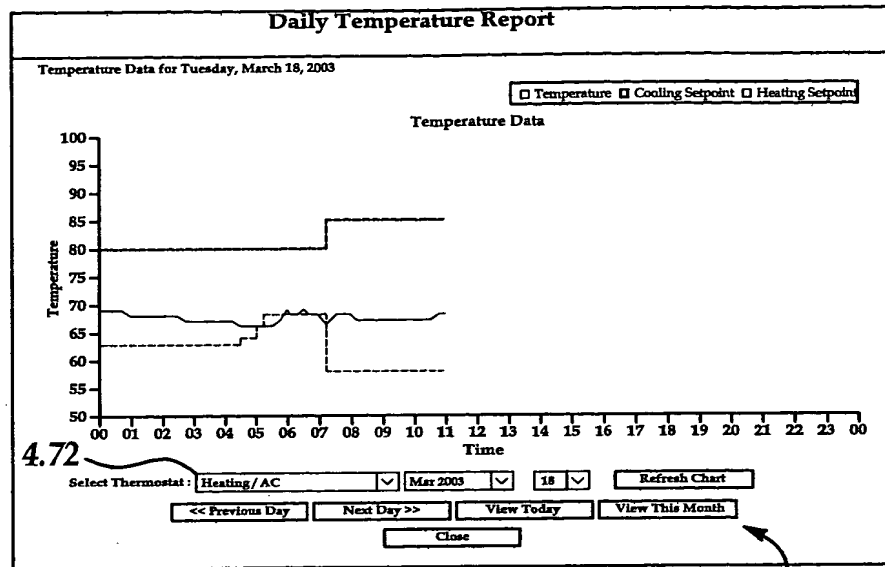


Figure 4L

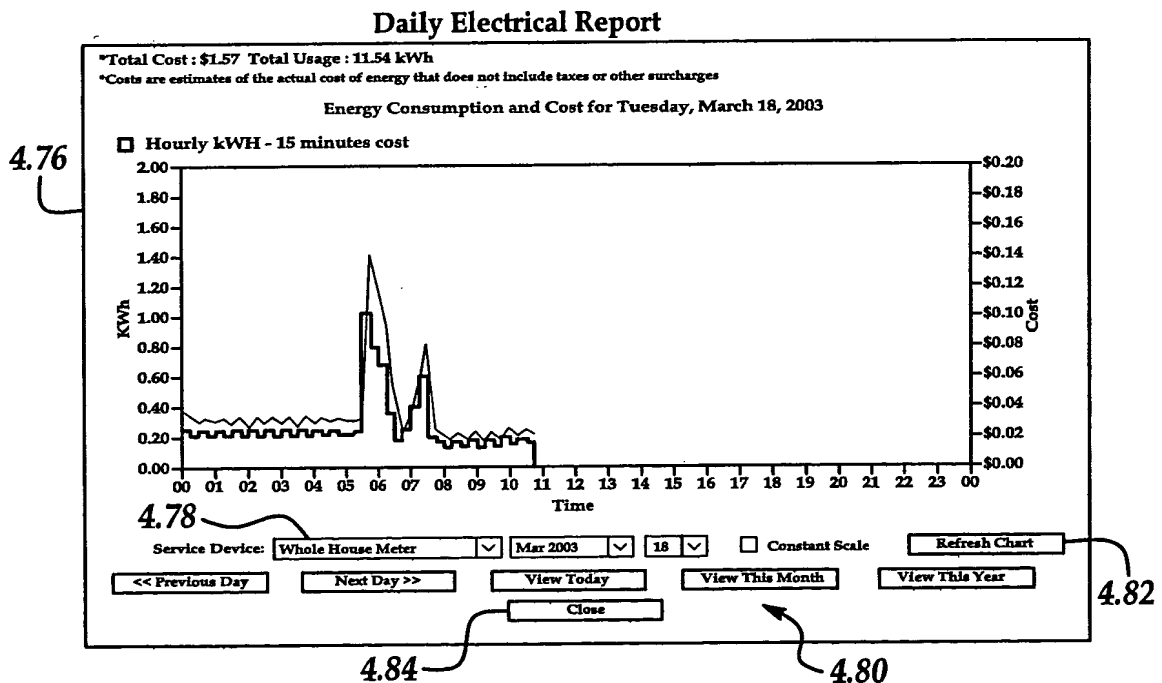


Figure 4M

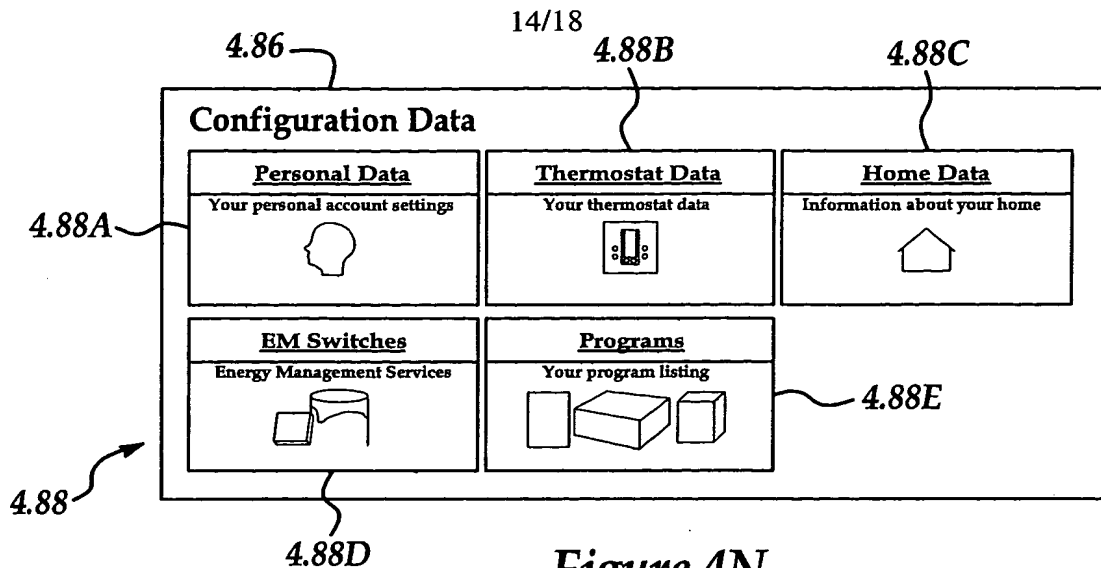


Figure 4N

Thermostat Data

*Thermostat Name: Heating / AC ☒ Thermostat Active

Heating
 Type: Electric w/ Electric Emergency
 Stages: 1 2
☒ Emergency Heating

Cooling
 Type: Electric Heat Pump
 Stages: 1 2

Additional controls: ☐ Humidifier ☐ Dehumidifier

*Safety Limits: 95 High 50 Low°F
 *Alert Limits: 90 High 45 Low°F

*Heat Limits: 75 High 45 Low°F
 *Cool Limits: 90 High 65 Low°F

Default Limits for Thermostat

Thermostat Summary Apply Reset

* = required

Figure 4O

4.92

Electric: w/ Electric Emergency

Electric: w/ Electric Emergency

Electric: w/ Gas Emergency

Electric: w/ Oil Emergency

Electric Baseboard

Propane

Oil

Steam

Hot Water

Figure 4P

4.94

Electric Heat Pump

Electric Heat Pump

Electric Standard Central Air

Natural Gas

Evaporative

Figure 4Q

15/18

Program Participation

4.96

Program Listing						
Participate	Product Name	Supply Type	Effective Dates		Effective Daily	
			From	To	From	To
<input checked="" type="checkbox"/>	Emergency AC Curtailment	On Demand	01/01	12/31	12:00am	11:59pm
<input checked="" type="checkbox"/>	A Group	On Demand	01/01	12/31	12:00am	11:59pm
<input type="checkbox"/>	B Group	On Demand	01/01	12/31	12:00am	11:59pm
<input type="checkbox"/>	Emergency HVAC Curtailment	On Demand	01/01	12/31	12:00am	11:59pm
<input type="checkbox"/>	Emergency Hot Tub/Spa Curtailment	On Demand	01/01	12/31	12:00am	11:59pm
<input type="checkbox"/>	Emergency Pool Pump Curtailment	On Demand	01/01	12/31	12:00am	11:59pm
<input type="checkbox"/>	Emergency Shut Off	On Demand	01/01	12/31	12:00am	11:59pm
<input type="checkbox"/>	Emergency Water Heater Curtailment	On Demand	01/01	12/31	12:00am	11:59pm
<input type="checkbox"/>	AfternoonPeaker	Scheduled	04/01	10/01	12:00am	6:00pm
<input type="checkbox"/>	MorningPeaker	Scheduled	01/01	12/31	6:00am	12:00pm

4.100

4.98

Figure 4R

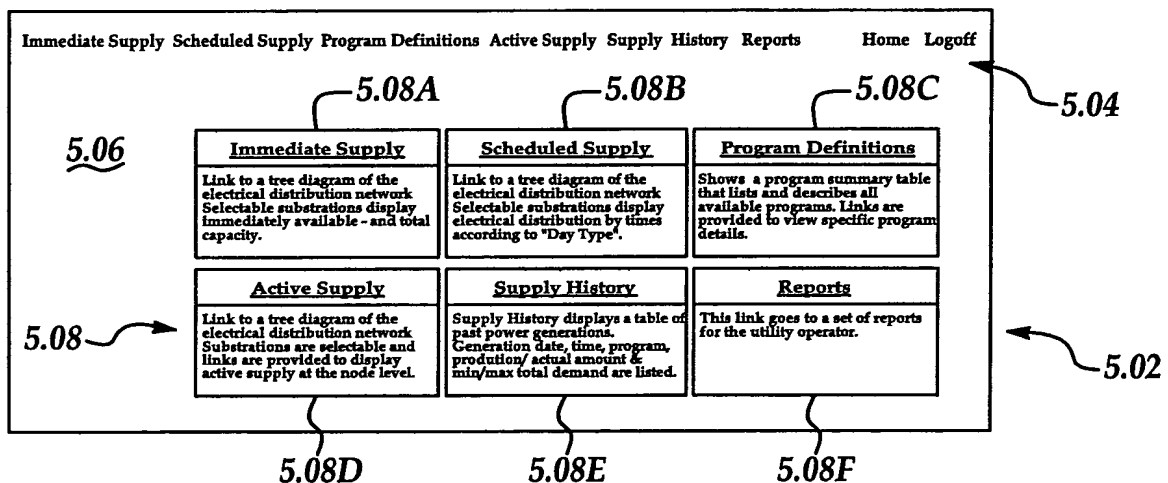


Figure 5A

16/18

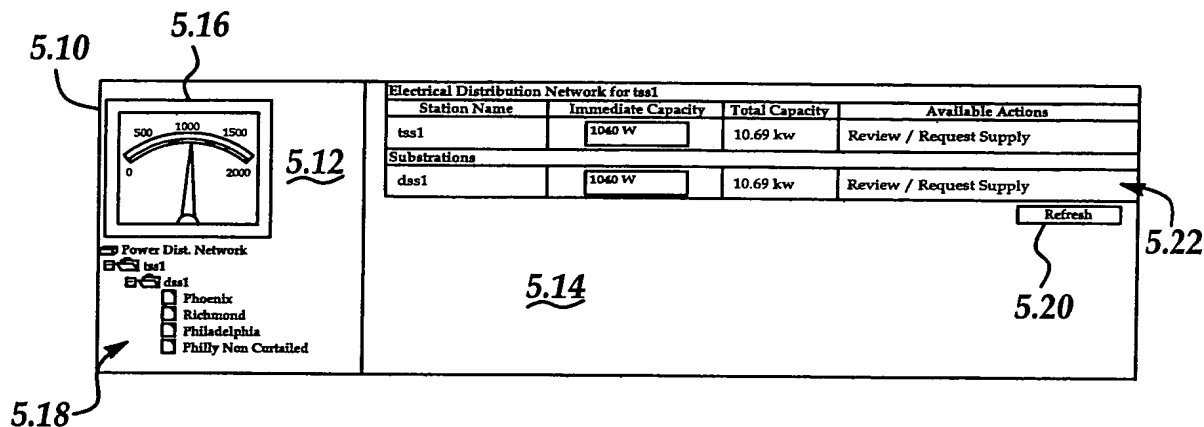


Figure 5B

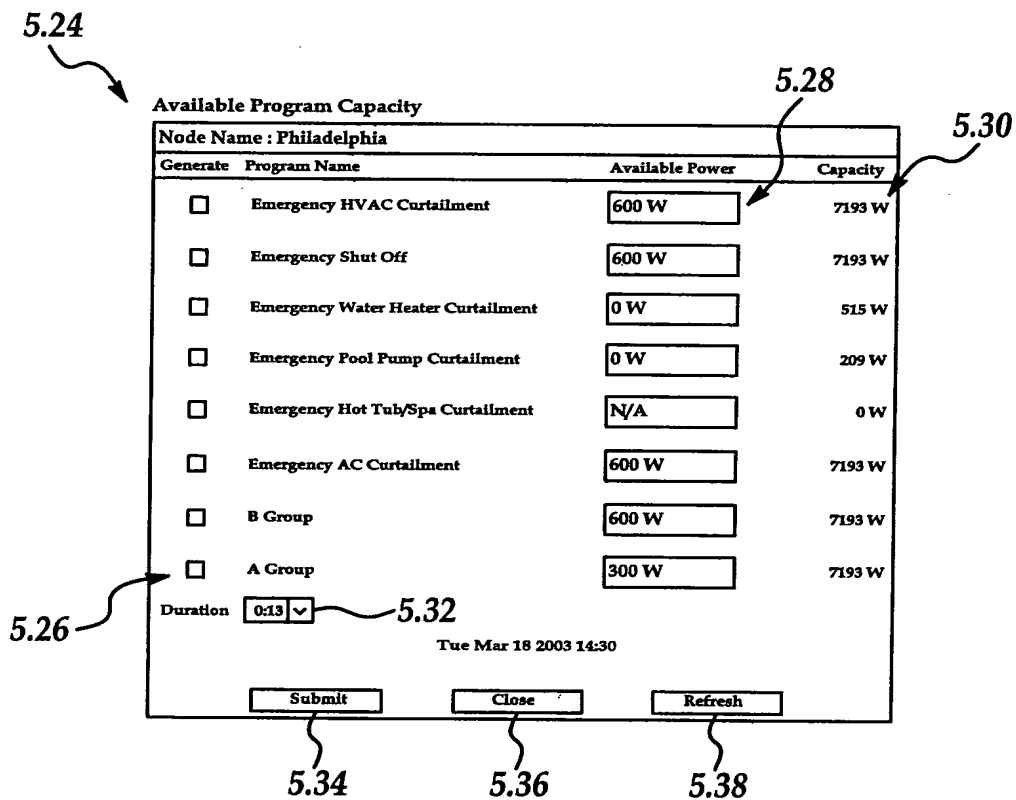


Figure 5C

17/18

5.40

5.44

5.42

5.46

Power Dist. Network

dsa1

dsa1

- Phoenix
- Richmond
- Philadelphia
- Philly Non Curtailed

Electrical Distribution Network for dsa1

Day Type	0000-0600	0600-1200	1200-1800	1800-2400	Available Actions	
Weekday	302 W	416 W	469 W	393 W	Review Schedules	Create Schedules
Substations						
Phoenix						
Weekday	9 W	55 W	1197 W	18 W	Review Schedules	Create Schedules
Richmond						
Weekday	163 W	187 W	169 W	205 W	Review Schedules	Create Schedules
Philadelphia						
Weekday	832 W	1160 W	599 W	946 W	Review Schedules	Create Schedules
Philly Non Curtailed						
Weekday	0 W	26 W	0 W	27 W	Review Schedules	Create Schedules

Refresh

Figure 5D

5.48

Find Eligible Programs

Find Eligible Programs for: Phoenix

Date: Month: 3 Day: 18 Year: 2003

From To

Time: Hours: 0 Minutes: 0 Hours: 1 Minutes: 0

Desired Supply: W Schedule Name:

Submit Reset Close

Figure 5E

5.50

Program Summary

Click on program name to edit

Program Name	Description
Immediate Supply	
A Group	HVAC Optional and Overrideable
B Group	HVAC Optional and Overrideable
Emergency AC Curtailment	Curtailment of AC systems - Not Overrideable or optional
Emergency HVAC Curtailment	Thermostats Curtailment program - Overrideable and Optional
Emergency Hot Tub/Spa Curtailment	Hot Tub/Spa Curtailment Program
Emergency Pool Pump Curtailment	Pool Pump Curtailment Program
Emergency Shut Off	Emergency program will supply from all devices
Emergency Water Heater Curtailment	Water Heater Curtailment Program
Scheduled Supply	
AfternoonPeaker	This program curtails WaterHeater, PoolPumps and HVAC between 12PM to 4PM
MorningPeaker	Shutoff WaterHeaters and Pool pumps between 6AM and 12 PM

New

5.52

5.54

Figure 5F

18/18

Program Definitions

Program Name:

Description:

Supply Type: ☒ On Demand ☐ Scheduled

Available Time: From: HH MM To: HH MM

Available Dates: From: MM DD To: MM DD

☐ Optional ☐ Overrideable

Device Types To Include: ☐ HVAC/ISTAT ☐ Water Heater ☐ Pool Pump ☐ Hot Tub/Spa

Figure 5G

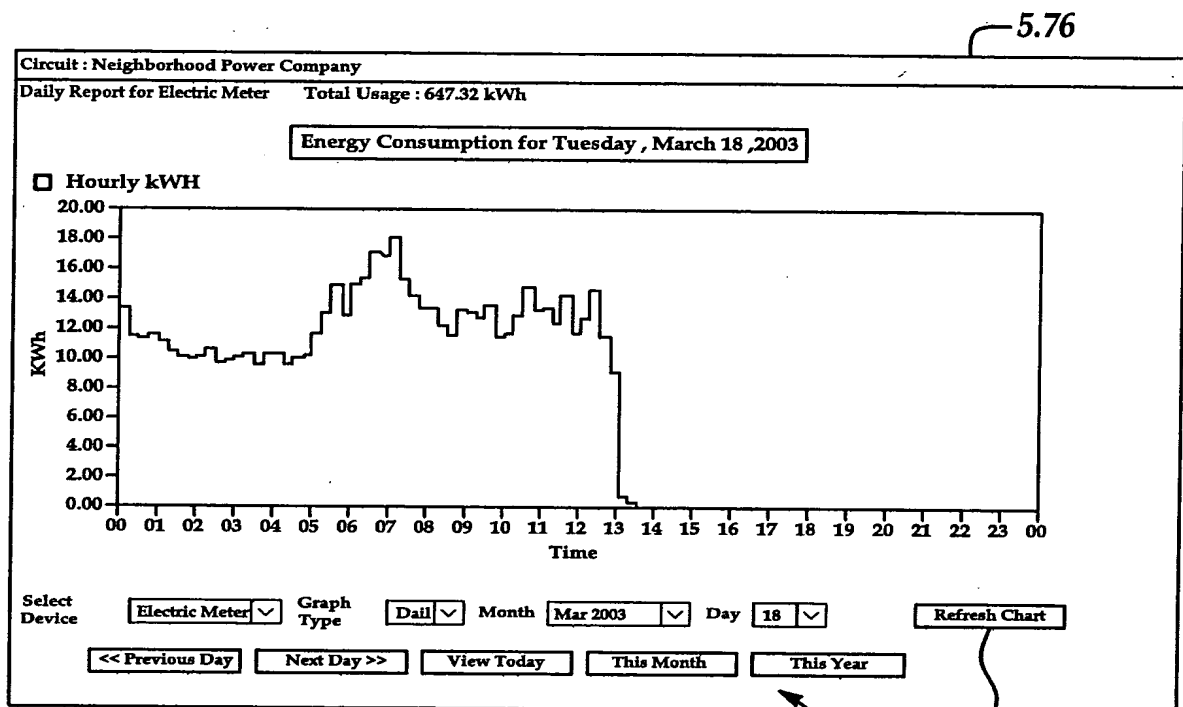


Figure 5H

Electric Meter	▼
Thermostat	
Electric Meter	
Water Heater	
Pool Pump	
Hot Tub/Spa	

Figure 5I